



## SEQUENCE LISTING

&lt;110&gt; Bristol-Myers Squibb Company

&lt;120&gt; A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY6, EXPRESSED HIGHLY IN SMALL INTESTINE

&lt;130&gt; D0040NP/3053-4119US3

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<141> 2001-09-26<150> 60/235,602  
<151> 2000-09-27<150> 60/306,604  
<151> 2001-07-19<150> 60/315,412  
<151> 2001-08-28

&lt;160&gt; 81

&lt;170&gt; PatentIn version 3.0

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Leu Asp Val Thr Thr His Leu Pro Ser Ala Ala Ser Gln Ile Pro Ala  
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Met Glu Glu Ser Cys Glu Ala Val Glu Ala Arg Glu Ile Met Trp Phe  
 565 570 575

Lys Thr Arg Gln Gly Gln Val Ala Lys Gln Ser Cys Pro Ala Gly Thr  
 580 585 590

Ile Gly Val Ser Thr Tyr Leu Cys Leu Ala Pro Asp Gly Ile Trp Asp  
 595 600 605

Pro Gln Gly Pro Asp Leu Ser Asn Cys Ser Ser Pro Trp Val Asn His  
 610 615 620

Ile Thr Gln Lys Leu Lys Ser Gly Glu Thr Ala Ala Asn Ile Ala Arg  
 625 630 635 640

Glu Leu Ala Glu Gln Thr Arg Asn His Leu Asn Ala Gly Asp Ile Thr  
 645 650 655

Tyr Ser Val Arg Ala Met Asp Gln Leu Val Gly Leu Leu Asp Val Gln  
 660 665 670

Leu Arg Asn Leu Thr Pro Gly Gly Lys Asp Ser Ala Ala Arg Ser Leu  
 675 680 685

Asn Lys Leu Gln Lys Arg Glu Arg Ser Cys Arg Ala Tyr Val Gln Ala  
 690 695 700

Met Val Glu Thr Val Asn Asn Leu Leu Gln Pro Gln Ala Leu Asn Ala  
 705 710 715 720

Trp Arg Asp Leu Thr Thr Ser Asp Gln Leu Arg Ala Ala Thr Met Leu  
 725 730 735

Leu Asp Thr Val Glu Glu Ser Ala Phe Val Leu Ala Asp Asn Leu Leu  
 740 745 750

Lys Thr Asp Ile Val Arg Glu Asn Thr Asp Asn Ile Gln Leu Glu Val  
 755 760 765

Ala Arg Leu Ser Thr Glu Gly Asn Leu Glu Asp Leu Lys Phe Pro Glu  
 770 775 780

Asn Thr Gly His Gly Ser Thr Ile Gln Leu Ser Ala Asn Thr Leu Lys  
 785 790 795 800

Gln Asn Gly Arg Asn Gly Glu Ile Arg Val Ala Phe Val Leu Tyr Asn  
                   805                  810                  815  
 Asn Leu Gly Pro Tyr Leu Ser Thr Glu Asn Ala Ser Met Lys Leu Gly  
                   820                  825                  830  
 Thr Glu Ala Met Ser Thr Asn His Ser Val Ile Val Asn Ser Pro Val  
                   835                  840                  845  
 Ile Thr Ala Ala Ile Asn Lys Glu Phe Ser Asn Lys Val Tyr Leu Ala  
                   850                  855                  860  
 Asp Pro Val Val Phe Thr Val Lys His Ile Lys Gln Ser Glu Glu Asn  
                   865                  870                  875                  880  
 Phe Asn Pro Asn Cys Ser Phe Trp Ser Tyr Ser Lys Arg Thr Met Thr  
                   885                  890                  895  
 Gly Tyr Trp Ser Thr Gln Gly Cys Arg Leu Leu Thr Thr Asn Lys Thr  
                   900                  905                  910  
 His Thr Thr Cys Ser Cys Asn His Leu Thr Asn Phe Ala Val Leu Met  
                   915                  920                  925  
 Ala His Val Glu Val Lys His Ser Asp Ala Val His Asp Leu Leu Leu  
                   930                  935                  940  
 Asp Val Ile Thr Trp Val Gly Ile Leu Leu Ser Leu Val Cys Leu Leu  
                   945                  950                  955                  960  
 Ile Cys Ile Phe Thr Phe Cys Phe Phe Arg Gly Leu Gln Ser Asp Arg  
                   965                  970                  975  
 Asn Thr Ile His Lys Asn Leu Cys Ile Ser Leu Phe Val Ala Glu Leu  
                   980                  985                  990  
 Leu Phe Leu Ile Gly Ile Asn Arg Thr Asp Gln Pro Ile Ala Cys Ala  
                   995                  1000                  1005  
 Val Phe Ala Ala Leu Leu His Phe Phe Phe Leu Ala Ala Phe Thr  
                   1010                  1015                  1020  
 Trp Met Phe Leu Glu Gly Val Gln Leu Tyr Ile Met Leu Val Glu  
                   1025                  1030                  1035  
 Val Phe Glu Ser Glu His Ser Arg Arg Lys Tyr Phe Tyr Leu Val  
                   1040                  1045                  1050  
 Gly Tyr Gly Met Pro Ala Leu Ile Val Ala Val Ser Ala Ala Val  
                   1055                  1060                  1065  
 Asp Tyr Arg Ser Tyr Gly Thr Asp Lys Val Cys Trp Leu Arg Leu  
                   1070                  1075                  1080  
 Asp Thr Tyr Phe Ile Trp Ser Phe Ile Gly Pro Ala Thr Leu Ile  
                   1085                  1090                  1095

Ile Met Leu Asn Val Ile Phe Leu Gly Ile Ala Leu Tyr Lys Met  
 1100 1105 1110

Phe His His Thr Ala Ile Leu Lys Pro Glu Ser Gly Cys Leu Asp  
 1115 1120 1125

Asn Ile Lys Ser Trp Val Ile Gly Ala Ile Ala Leu Leu Cys Leu  
 1130 1135 1140

Leu Gly Leu Thr Trp Ala Phe Gly Leu Met Tyr Ile Asn Glu Ser  
 1145 1150 1155

Thr Val Ile Met Ala Tyr Leu Phe Thr Ile Phe Asn Ser Leu Gln  
 1160 1165 1170

Gly Met Phe Ile Phe Ile Phe His Cys Val Leu Gln Lys Lys Val  
 1175 1180 1185

Arg Lys Glu Tyr Gly Lys Cys Leu Arg Thr His Cys Cys Ser Gly  
 1190 1195 1200

Lys Ser Thr Glu Ser Ser Ile Gly Ser Gly Lys Thr Ser Gly Ser  
 1205 1210 1215

Arg Thr Pro Gly Arg Tyr Ser Thr Gly Ser Gln Ser Arg Ile Arg  
 1220 1225 1230

Arg Met Trp Asn Asp Thr Val Arg Lys Gln Ser Glu Ser Ser Phe  
 1235 1240 1245

Ile Thr Gly Asp Ile Asn Ser Ser Ala Ser Leu Asn Arg Glu Gly  
 1250 1255 1260

Leu Leu Asn Asn Ala Arg Asp Thr Ser Val Met Asp Thr Leu Pro  
 1265 1270 1275

Leu Asn Gly Asn His Gly Asn Ser Tyr Ser Ile Ala Gly Gly Glu  
 1280 1285 1290

Tyr Leu Ser Asn Cys Val Gln Ile Ile Asp Arg Gly Tyr Asn His  
 1295 1300 1305

Asn Glu Thr Ala Leu Glu Lys Lys Ile Leu Lys Glu Leu Thr Ser  
 1310 1315 1320

Asn Tyr Ile Pro Ser Tyr Leu Asn Asn His Glu Arg Ser Ser Glu  
 1325 1330 1335

Gln Asn Arg Asn Met Met Asn Lys Leu Val Asp Asn Leu Gly Ser  
 1340 1345 1350

Gly Ser Glu Asp Asp Ala Ile Val Leu Asp Asp Ala Ala Ser Phe  
 1355 1360 1365

Asn His Glu Glu Ser Leu Gly Leu Glu Leu Ile His Glu Glu Ser  
 1370 1375 1380

Asp Ala Pro Leu Leu Pro Pro Arg Val Tyr Ser Thr Asp Asn His  
 1385 1390 1395  
 Gln Pro His His Tyr Ser Arg Arg Arg Leu Pro Gln Asp His Ser  
 1400 1405 1410  
 Glu Ser Phe Phe Pro Leu Leu Thr Asp Glu His Thr Glu Asp Pro  
 1415 1420 1425  
 Gln Ser Pro His Arg Asp Ser Leu Tyr Thr Ser Met Pro Ala Leu  
 1430 1435 1440  
 Ala Gly Val Pro Ala Ala Asp Ser Val Thr Thr Ser Thr Gln Thr  
 1445 1450 1455  
 Glu Ala Ala Ala Ala Lys Gly Gly Asp Ala Glu Asp Val Tyr Tyr  
 1460 1465 1470  
 Lys Ser Met Pro Asn Leu Gly Ser Arg Asn His Val His Pro Leu  
 1475 1480 1485  
 His Ala Tyr Tyr Gln Leu Gly Arg Gly Ser Ser Asp Gly Phe Ile  
 1490 1495 1500  
 Val Pro Pro Asn Lys Asp Gly Ala Ser Pro Glu Gly Thr Ser Lys  
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 Gly Pro Ala His Leu Val Thr Ser Leu  
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 Pro Pro Asn Leu Leu Glu Asn Leu Ser Pro Glu Asp Ser Val Leu Val  
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 Arg Arg Ala Gln Phe Thr Phe Asn Lys Thr Gly Leu Phe Gln Asp  
 35 40 45  
 Val Gly Pro Gln Arg Lys Thr Leu Val Ser Tyr Val Met Ala Cys Ser  
 50 55 60  
 Ile Gly Asn Ile Thr Ile Gln Asn Leu Lys Asp Pro Val Gln Ile Lys  
 65 70 75 80  
 Ile Lys His Thr Arg Thr Gln Glu Val His His Pro Ile Cys Ala Phe  
 85 90 95  
 Trp Asp Leu Asn Lys Asn Lys Ser Phe Gly Gly Trp Asn Thr Ser Gly

100	105	110
Cys Val Ala His Arg Asp Ser Asp Ala Ser Glu Thr Val Cys Leu Cys		
115	120	125
Asn His Phe Thr His Phe Gly Val Leu Met Asp Leu Pro Arg Ser Ala		
130	135	140
Ser Gln Leu Asp Ala Arg Asn Thr Lys Val Leu Thr Phe Ile Ser Tyr		
145	150	155
Ile Gly Cys Gly Ile Ser Ala Ile Phe Ser Ala Ala Thr Leu Leu Thr		
165	170	175
Tyr Val Ala Phe Glu Lys Leu Arg Arg Asp Tyr Pro Ser Lys Ile Leu		
180	185	190
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu		
195	200	205
Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val		
210	215	220
Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly		
225	230	235
Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr		
245	250	255
Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu		
260	265	270
Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu		
275	280	285
Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys		
290	295	300
Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe		
305	310	315
Gly Val Met Phe Phe Leu Asn Ile Ala Met Phe Ile Val Val Met Val		
325	330	335
Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu		
340	345	350
Glu Val Leu Arg Asn Leu Arg Ser Val Val Ser Leu Thr Phe Leu Leu		
355	360	365
Gly Met Thr Trp Gly Phe Ala Phe Phe Ala Trp Gly Pro Leu Asn Ile		
370	375	380
Pro Phe Met Tyr Leu Phe Ser Ile Phe Asn Ser Leu Gln Gly Leu Phe		
385	390	395
Ile Phe Ile Phe His Cys Ala Met Lys Glu Asn Val Gln Lys Gln Trp		

405	410	415
Arg Gln His Leu Cys Cys Gly Arg Phe Arg Leu Ala Asp Asn Ser Asp		
420	425	430
Trp Ser Lys Thr Ala Thr Asn Ile Ile Lys Lys Ser Ser Asp Asn Leu		
435	440	445
Gly Lys Ser Leu Ser Ser Ser Ser Ile Gly Ser Asn Ser Thr Tyr Leu		
450	455	460
Thr Ser Lys Ser Lys Ser Ser Ser Thr Thr Tyr Phe Lys Arg Asn Ser		
465	470	475
His Thr Asp Ser Ala Ser Met Asp Lys Ser Leu Ser Lys Leu Ala His		
485	490	495
Ala Asp Gly Asp Gln Thr Ser Ile Ile Pro Val His Gln Val Ile Asp		
500	505	510
Lys Val Lys Gly Tyr Cys Asn Ala His Ser Asp Asn Phe Tyr Lys Asn		
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Ile Ile Met Ser Asp Thr Phe Ser His Ser Thr Lys Phe		
530	535	540
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Met Ala Thr Ala Ser Thr Glu Ile Ser Glu Phe Ser Glu Ala Ile Glu		
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15		
Ser Thr Phe Asp Leu Asp Phe Thr Ala His Gln Thr Glu Ile Ile Gly		
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Thr Tyr Trp Asn Leu Arg Ala Leu Leu Arg Leu His Arg Ser Leu Val		
35	40	45
Ala Ile Asp His Val Ser Gln Lys Ser Phe Trp Glu Arg Tyr Asn His		
50	55	60
Trp Ile Gln Leu Ser Met Leu Val Ser Asn Gln Asn Val Asn Leu Cys		
65	70	75
80		
Gln Ser Asn Ile Cys Gln Asn Gly Gly Thr Cys Leu Val Ala Ser Ser		
85	90	95
Val Pro Ala Thr Ala Thr Cys Pro Lys Asn Ser Ile Tyr Tyr Met Gly		
100	105	110
Ser Cys Tyr Val Phe Asp Thr Thr Leu Arg Asn Trp Asn Asp Ala Ala		
115	120	125

Leu Tyr Cys Asn Asn Met Asn Ser Ala Thr Leu Pro Leu Val Glu Ser  
 130 135 140  
 Ala Glu Asp Gln Ala Phe Phe Ala Gly Tyr Leu Gln Ala Met Ile Pro  
 145 150 155 160  
 Ser Asn Pro Pro Ala Asp Met Arg Pro Pro Pro Asp Gly Ile Trp Thr  
 165 170 175  
 Ala Val Arg Gly Val Asn Asn Val Thr Arg Ala Ser Trp Val Tyr Tyr  
 180 185 190  
 Pro Gly Ser Phe Leu Val Thr Asp Thr Phe Trp Ala Pro Gln Glu Pro  
 195 200 205  
 Asn Ile Tyr Val Asn Tyr Asn Asp Val Cys Val Ala Leu Gln Ser Asp  
 210 215 220  
 Ser Phe Tyr Arg Glu Trp Thr Thr Ala Leu Cys Thr Ile Leu Lys Tyr  
 225 230 235 240  
 Thr Val Cys Lys Val Ala Pro Thr Gln Ile Gln Ala Lys Tyr Val Ala  
 245 250 255  
 Gln Cys Ser Cys Pro Asn Gly Tyr Gly Gln Thr Cys Glu Thr Gln  
 260 265 270  
 Ser Thr Thr Asn Gln Gln Ala Ser Thr Gln Arg Thr Cys Gly Ser Asn  
 275 280 285  
 Asp Phe Gln Phe Ser Cys Pro Asn Asp Gln Thr Ile Thr Val Asp Phe  
 290 295 300  
 Ala Ser Phe Gly Ala Gln Gly Gly Ser Ile Ile Thr Ser Pro Pro Asp  
 305 310 315 320  
 Ala Leu Leu Gln Gln Ile Val Gln Lys Val Asn Ala Glu Thr Lys Lys  
 325 330 335  
 Thr Val Asn Phe Trp Ile Gly Thr Pro Asn Asn Cys Gln Leu Leu Met  
 340 345 350  
 Val Thr Gly Ser Ser Thr Ser Tyr Ser Gln Cys Pro Ser Ser Pro Ser  
 355 360 365  
 Ser Thr Ala Asn Val Ile Cys Ser Thr Val Pro Gln Ser Thr Ala Ser  
 370 375 380  
 Val Ser Ala Arg Pro Thr Gln Ser Ala Pro Val Asp Pro Val Ser Gln  
 385 390 395 400  
 Thr Met Ala Arg Arg Glu Val Tyr Thr Gly Val Gln Pro Ile Ala Ser  
 405 410 415  
 Ala Leu Gly Gly Gln Ser Lys Lys Thr Asn Arg Lys Leu Asn Asn Ile  
 420 425 430

Cys Gln Thr Lys Ile Gly Ala Pro Leu Ser Leu Phe Leu Phe Ser Arg  
 435 440 445  
 Asn Glu Val Ile Thr Gly Phe Val Cys Ile Ser Leu Ile Ser Ala Ser  
 450 455 460  
 Pro Gln Ile Ile Tyr Tyr Leu Cys Ala Val Ser Leu Ile Cys His Pro  
 465 470 475 480  
 Ser Val Pro Asp Ser Ile Asn Lys Pro Arg Tyr Cys Lys Lys Glu Lys  
 485 490 495  
 Lys Asp Gly Ile Thr Tyr Glu Gln Thr Arg Ala Cys Met Leu His Glu  
 500 505 510  
 Gln Pro Cys Pro Asp Pro Gln Asn Val Glu Gly Thr Val Thr Arg Tyr  
 515 520 525  
 Cys Asn Cys Gln Thr Ala Lys Trp Glu Thr Pro Asp Thr Thr Asn Cys  
 530 535 540  
 Thr His Arg Trp Val Ala Glu Met Glu Thr Ala Ile Lys Asp Asn Gln  
 545 550 555 560  
 Pro Val Glu Asp Ile Ser Ser Thr Val Asn Arg Gln Leu Lys Ser Thr  
 565 570 575  
 Ile Glu Arg Thr Leu Phe Gly Gly Asp Ile Thr Gly Thr Val Arg Leu  
 580 585 590  
 Ser Asn Asp Met Leu Ser Leu Ala Arg Asn Gln Phe Ser Val Leu Asn  
 595 600 605  
 Asp Arg Asn Leu Arg Glu Asn Lys Ala Arg Asn Phe Thr Glu Asn Leu  
 610 615 620  
 Gly Gly Ser Gly Asp Gln Leu Leu Ser Pro Val Ala Ala Thr Val Trp  
 625 630 635 640  
 Asp Gln Leu Ser Ser Thr Ile Arg Ile Gln His Ala Ser Lys Leu Met  
 645 650 655  
 Ser Val Leu Glu Gln Ser Val Leu Leu Leu Gly Asp Tyr Met Thr Asp  
 660 665 670  
 Gln Lys Leu Asn Leu Gln Tyr Ile Asn Trp Ala Met Glu Val Glu Arg  
 675 680 685  
 Ser Glu Pro Glu Val Gln Thr Phe Gly Ala Ala Ala Ser Pro Asn Val  
 690 695 700  
 Gln Asp Asp Met Gly Met Met Arg Val Met Ala Ala Ala Pro Pro Ala  
 705 710 715 720  
 Pro Gln Pro Glu Thr Asn Thr Ile Met Phe Pro Ser Leu Lys Leu  
 725 730 735

Ser Pro Thr Ile Thr Leu Pro Ser Ala Ser Leu Leu Ser Ser Leu Ala  
 740 745 750  
 Ser Pro Thr Pro Val Ala Gly Gly Pro Ser Ile Leu Ser Ser Phe  
 755 760 765  
 Gln Asp Asp Thr Pro Val Gly Met Ala Ser Thr Pro Asn Leu Asn Arg  
 770 775 780  
 Asn Pro Val Lys Leu Gly Tyr Tyr Ala Phe Ala Gly Phe Gly Gln Leu  
 785 790 795 800  
 Leu Asn Asn Asn Asn Asp His Thr Leu Ile Asn Ser Gln Val Ile Gly  
 805 810 815  
 Ala Ser Ile Gln Asn Ala Thr Gln Ser Val Thr Leu Pro Val Asp His  
 820 825 830  
 Pro Val Thr Phe Thr Phe Gln His Leu Thr Thr Lys Gly Val Ser Asn  
 835 840 845  
 Pro Arg Cys Val Tyr Trp Asp Leu Met Glu Ser Lys Trp Ser Thr Leu  
 850 855 860  
 Gly Cys Thr Leu Ile Ala Thr Ser Ser Asn Ser Ser Gln Cys Ser Cys  
 865 870 875 880  
 Thr His Leu Thr Ser Phe Ala Ile Leu Met Asp Ile Ser Gly Gln Val  
 885 890 895  
 Gly Arg Leu Ser Gly Gly Leu Ala Ser Ala Leu Asp Val Val Ser Thr  
 900 905 910  
 Ile Gly Cys Ala Ile Ser Ile Val Cys Leu Ala Leu Ser Val Cys Val  
 915 920 925  
 Phe Thr Phe Phe Arg Asn Leu Gln Asn Val Arg Asn Ser Ile His Arg  
 930 935 940  
 Asn Leu Cys Leu Cys Leu Leu Ile Ala Glu Leu Val Phe Val Ile Gly  
 945 950 955 960  
 Met Asp Arg Thr Gly Asn Arg Thr Gly Cys Gly Val Val Ala Ile Leu  
 965 970 975  
 Leu His Tyr Phe Phe Leu Ser Ser Phe Cys Trp Met Leu Leu Glu Gly  
 980 985 990  
 Tyr Gln Leu Tyr Met Met Leu Ile Gln Val Phe Glu Pro Asn Arg Thr  
 995 1000 1005  
 Arg Ile Phe Leu Tyr Tyr Leu Phe Cys Tyr Gly Thr Pro Ala Val  
 1010 1015 1020  
 Val Val Ala Ile Ser Ala Gly Ile Lys Trp Glu Asp Tyr Gly Thr  
 1025 1030 1035

Asp	Ser	Tyr	Cys	Trp	Ile	Asp	Thr	Ser	Thr	Pro	Thr	Ile	Trp	Ala
1040						1045						1050		
Phe	Val	Ala	Pro	Ile	Ile	Val	Ile	Ile	Ala	Ala	Asn	Ile	Ile	Phe
1055						1060						1065		
Leu	Leu	Ile	Ala	Leu	Lys	Val	Val	Leu	Ser	Val	Gln	Ser	Arg	Asp
1070						1075					1080			
Arg	Thr	Lys	Trp	Gly	Arg	Ile	Ile	Gly	Trp	Leu	Lys	Gly	Ser	Ala
1085						1090					1095			
Thr	Leu	Leu	Cys	Leu	Leu	Gly	Ile	Thr	Trp	Ile	Phe	Gly	Phe	Leu
1100						1105					1110			
Thr	Ala	Val	Lys	Gly	Gly	Thr	Gly	Thr	Ala	Phe	Ala	Trp	Ile	Phe
1115						1120					1125			
Thr	Ile	Leu	Asn	Cys	Thr	Gln	Gly	Ile	Phe	Ile	Phe	Val	Leu	His
1130						1135					1140			
Val	Val	Leu	Asn	Glu	Lys	Val	Arg	Ala	Ser	Ile	Val	Arg	Trp	Leu
1145						1150					1155			
Arg	Thr	Gly	Ile	Cys	Cys	Leu	Pro	Glu	Thr	Ser	Ser	Ala	Ala	Tyr
1160						1165					1170			
Asn	Ser	Arg	Ser	Phe	Leu	Ser	Ser	Arg	Gln	Arg	Ile	Leu	Asn	Met
1175						1180					1185			
Ile	Lys	Val	Asn	Gly	His	Ser	Tyr	Pro	Ser	Thr	Ala	Ser	Thr	Asp
1190						1195					1200			
Asp	Lys	Glu	Lys	Gln	Leu	Thr	Pro	Ile	Thr	Lys	Thr	Thr	Asp	Trp
1205						1210					1215			
Leu	Ser	Arg	Leu	Pro	Asn	Gln	Asp	Ser	Val	Ser	Ile	Pro	Glu	Ser
1220						1225					1230			
Asn	Phe	Asn	Asn	Leu	Asn	Gly	Thr	Leu	Glu	Asn	Ser	Asn	Leu	Asn
1235						1240					1245			
Ser	Ala	Glu	Ile	Lys	Glu	Glu	Asp	Glu	Ile	Pro	Glu	Leu	Arg	Arg
1250						1255					1260			
Arg	Val	Thr	Val	Asp	Leu	Asn	Pro	Met	Ile	Val	Ser	Asn	Asn	Glu
1265						1270					1275			
Ile	Glu	Arg	Met	Ser	His	Ala	Ser	Ser	Asp	Pro	Arg	Gly	Ser	Gln
1280						1285					1290			
Ile	Ile	Glu	Val	Thr	Ala	Val	Glu	Lys	Lys	Ala	Pro	Val	Lys	Arg
1295						1300					1305			
Ile	Lys	Phe	Pro	Leu	Gly	Ala	Lys	Gln	Ser	Glu	Arg	Gly	Ser	Gln
1310						1315					1320			

His	Arg	Thr	Lys	Ala	Lys	His	Gly	Thr	Gly	Thr	Leu	Val	Ser	Pro
1325						1330					1335			
Trp	His	Ile	Val	Thr	Ala	Ala	His	Leu	Ile	Gly	Ile	Ser	Glu	Asp
1340							1345				1350			
Pro	Leu	Pro	Asp	Cys	Asp	Thr	Gly	Asn	Leu	Arg	Glu	Ala	Tyr	Phe
1355						1360					1365			
Val	Arg	Asp	Tyr	Lys	Asn	Phe	Val	Ala	Phe	Val	Asn	Val	Thr	Cys
1370						1375					1380			
Ala	Val	Pro	Glu	Met	Cys	Lys	Gly	Leu	His	Arg	Lys	Asp	Met	Phe
1385						1390					1395			
Lys	Pro	Leu	Ala	Ile	Lys	Ser	Leu	Tyr	Ile	Arg	Lys	Gly	Tyr	Val
1400						1405					1410			
Gly	Asp	Gly	Cys	Ile	Asp	Arg	Glu	Ser	Phe	Asn	Asp	Ile	Ala	Val
1415						1420					1425			
Phe	Glu	Leu	Glu	Glu	Pro	Ile	Glu	Phe	Ser	Lys	Asp	Ile	Phe	Pro
1430						1435					1440			
Ala	Cys	Leu	Pro	Ser	Ala	Pro	Lys	Ile	Pro	Arg	Ile	Arg	Glu	Thr
1445						1450					1455			
Gly	Tyr	Lys	Leu	Phe	Gly	Tyr	Gly	Arg	Asp	Pro	Ser	Asp	Ser	Val
1460						1465					1470			
Leu	Glu	Ser	Gly	Lys	Leu	Lys	Ser	Leu	Tyr	Ser	Phe	Val	Ala	Glu
1475						1480					1485			
Cys	Ser	Asp	Asp	Phe	Pro	Tyr	Gly	Gly	Val	Tyr	Cys	Thr	Ser	Ala
1490						1495					1500			
Val	Asn	Arg	Gly	Leu	Ser	Cys	Asp	Gly	Asp	Ser	Gly	Ser	Gly	Val
1505						1510					1515			
Val	Arg	Thr	Ser	Asp	Thr	Arg	Asn	Val	Gln	Val	Leu	Val	Gly	Val
1520						1525					1530			
Leu	Ser	Ala	Gly	Met	Pro	Cys	Pro	Glu	Leu	Tyr	Asp	Thr	His	Asn
1535						1540					1545			
Arg	Gln	Arg	Gln	Gln	Arg	Arg	Gln	Leu	Thr	Gln	Glu	Thr	Asp	Leu
1550						1555					1560			
Leu	Val	Asp	Val	Ser	Ala	His	Val	Asp	Phe	Phe	Cys	Thr	Cys	Cys
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Gly	Met	Cys	Ser											
1580														
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<213> Homo sapiens

<400> 12

Met Glu Thr Tyr Ser Leu Ser Leu Gly Asn Gln Ser Val Val Glu Pro  
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Asn Ile Ala Ile Gln Ser Ala Asn Phe Ser Ser Glu Asn Ala Val Gly  
20 25 30

Pro Ser Asn Val Arg Phe Ser Val Gln Lys Gly Ala Ser Ser Ser Leu  
35 40 45

Val Ser Ser Ser Thr Phe Ile His Thr Asn Val Asp Gly Leu Asn Pro  
50 55 60

Asp Ala Gln Thr Glu Leu Gln Val Leu Asn Met Thr Lys Asn Tyr  
65 70 75 80

Thr Lys Thr Cys Gly Phe Val Val Tyr Gln Asn Asp Lys Leu Phe Gln  
85 90 95

Ser Lys Thr Phe Thr Ala Lys Ser Asp Phe Ser Gln Lys Ile Ile Ser  
100 105 110

Ser Lys Thr Asp Glu Asn Glu Gln Asp Gln Ser Ala Ser Val Asp Met  
115 120 125

Val Phe Ser Pro Lys Tyr Asn Gln Lys Glu Phe Gln Leu Tyr Ser Tyr  
130 135 140

Ala Cys Val Tyr Trp Asn Leu Ser Ala Lys Asp Trp Asp Thr Tyr Gly  
145 150 155 160

Cys Gln Lys Asp Lys Gly Thr Asp Gly Phe Leu Arg Cys Arg Cys Asn  
165 170 175

His Thr Thr Asn Phe Ala Val Leu Met Thr Phe Lys Lys Asp Tyr Gln  
180 185 190

Tyr Pro Lys Ser Leu Asp  
195

<210> 13

<211> 10

<212> PRT

<213> Homo sapiens

<400> 13

Gln Ile Val Thr Arg Lys Val Arg Lys Thr  
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<210> 14

<211> 38

<212> PRT

<213> Homo sapiens

<400> 14

Glu Asn Ser Asn Lys Asn Leu Gln Thr Ser Asp Gly Asp Ile Asn Asn  
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Ile Asp Phe Asp Asn Asn Asp Ile Pro Arg Thr Asp Thr Ile Asn Ile  
20 25 30

Pro Asn Pro Met Cys Thr  
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<210> 15

<211> 10

<212> PRT

<213> Homo sapiens

<400> 15

Ile Arg Thr Met Lys Pro Leu Pro Arg His  
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<210> 16

<211> 41

<212> PRT

<213> Homo sapiens

<400> 16

Thr Val Gly Val Ile Tyr Ser Gln Asn Gly Asn Asn Pro Gln Trp Glu  
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Leu Asp Tyr Arg Gln Glu Lys Ile Cys Trp Leu Ala Ile Pro Glu Pro  
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Asn Gly Val Ile Lys Ser Pro Leu Leu  
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<210> 17

<211> 25

<212> PRT

<213> Homo sapiens

<400> 17

Thr Ile Ser Ile Lys Val Leu Trp Lys Asn Asn Gln Asn Leu Thr Ser  
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Thr Lys Lys Val Ser Ser Met Lys Lys  
20 25

<210> 18

<211> 6

<212> PRT

<213> Homo sapiens

<400> 18

Asn Asp Asp Ser Ile Arg  
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<210> 19  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 19

Tyr Thr Val Arg Thr Lys Val Phe Gln Ser Glu Ala Ser Lys Val Leu  
 1 5 10 15

Met Leu Leu Ser Ser Ile Gly Arg Arg Lys Ser Leu Pro Ser Val Thr  
 20 25 30

Arg Pro Arg Leu Arg Val Lys Met Tyr Asn Phe Leu Arg Ser Leu Pro  
 35 40 45

Thr Leu His Glu Arg Phe Arg Leu Leu Glu Thr Ser Pro Ser Thr Glu  
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Glu Ile Thr Leu Ser Glu Ser Asp Asn Ala Lys Glu Ser Ile  
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Gln Ser Lys Thr Phe Thr Ala Lys Ser Asp Phe Ser Gln  
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<211> 13

<212> PRT

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Ala Lys Ser Asp Phe Ser Gln Lys Ile Ile Ser Ser Lys  
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<210> 29

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<212> PRT

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<400> 29

Ser Gln Lys Ile Ile Ser Ser Lys Thr Asp Glu Asn Glu  
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Val Tyr Trp Asn Leu Ser Ala Lys Asp Trp Asp Thr Tyr  
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<210> 33

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<212> PRT  
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<400> 33

Ile Phe Gln Ile Val Thr Arg Lys Val Arg Lys Thr Ser  
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Met Phe Ile Thr Ile Ser Ile Lys Val Leu Trp Lys Asn  
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<400> 37

Asn Gln Asn Leu Thr Ser Thr Lys Lys Val Ser Ser Met  
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Gln Asn Leu Thr Ser Thr Lys Lys Val Ser Ser Met Lys  
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Ser Leu Gly Asn Gln Ser Val Val Glu Pro Asn Ile Ala Ile  
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Val Tyr Trp Asn Leu Ser Ala Lys Asp Trp Asp Thr Tyr Gly  
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<400> 48

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Val Thr Arg Lys Val Arg Lys Thr Ser Val Thr Trp Val Leu  
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Leu Ser Ser Ile Gly Arg Arg Lys Ser Leu Pro Ser Val Thr  
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Ser Leu Ser Leu Gly Asn Gln Ser Val Val Glu Pro Asn Ile  
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Ala Ile Gln Ser Ala Asn Phe Ser Ser Glu Asn Ala Val Gly  
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<400> 56

Leu Gln Val Leu Leu Asn Met Thr Lys Asn Tyr Thr Lys Thr  
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<400> 57

Leu Asn Met Thr Lys Asn Tyr Thr Lys Thr Cys Gly Phe Val  
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<400> 58

Ala Cys Val Tyr Trp Asn Leu Ser Ala Lys Asp Trp Asp Thr  
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Trp Lys Asn Asn Gln Asn Leu Thr Ser Thr Lys Lys Val Ser  
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<400> 61

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<400> 62

  

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<400> 69

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Pro Gly Pro Gly Gly  
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1 5 10 15

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Ser Asp Phe Val Gly Gly Phe Trp Phe Trp Asp Ser Leu Phe Asn  
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Gly Asp Phe Trp Tyr Glu Ala Cys Glu Ser Ser Cys Ala Phe Trp  
1 5 10 15

<210> 73  
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<400> 73

Leu Glu Trp Gly Ser Asp Val Phe Tyr Asp Val Tyr Asp Cys Cys  
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<210> 74

<211> 14  
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<400> 74

Arg Ile Asp Ser Cys Ala Lys Tyr Phe Leu Arg Ser Cys Asp  
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Cys Leu Arg Ser Gly Thr Gly Cys Ala Phe Gln Leu Tyr Arg Phe  
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<210> 76  
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<400> 76

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39

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37